

In the Claims:

Please amend the claims as follows:

1. Cancelled
2. Cancelled
3. (currently amended) A transmission power control apparatus in a base station for measuring SIR, which is a ratio of a ~~receive~~received signal to an interference signal, and controlling transmission power of a mobile station in such a manner that said measured SIR ~~will agree~~agrees with a target SIR, comprising:
 - a searcher for detecting multipath and levels of signals that arrive via respective ones of the paths;
 - a level-difference calculation unit for calculating plural level differences between mutually adjacent paths~~paths~~reception levels using the levels of signals;
 - a correction unit for correcting the target SIR based upon a combination of said plural level differences between mutually adjacent paths~~paths~~reception levels; and
 - means for creating a command, which controls transmission power of the mobile station in such a manner that the measured SIR ~~will agree~~agrees with said corrected target SIR, and transmitting this command to the mobile station.
4. (original) A transmission power control apparatus according to claim 3, further comprising a memory for rounding, as $(L_{\max} - L_s)$, levels for which the level difference from a maximum level L_{\max} is less than a set value L_s , and storing correction values of target SIR in correspondence with combinations of level differences between mutually adjacent reception levels in the order of the reception levels;

wherein said level-difference calculation unit arranges the reception levels of each of the paths of the multiple paths in order of decreasing or increasing size and calculates level differences between mutually adjacent reception levels; and

said correction unit corrects the target SIR using a correction value corresponding to the combination of level differences read out of the memory.

5. (currently amended) A transmission power control apparatus in a base station for measuring SIR, which is a ratio of a ~~receive~~-received signal to an interference signal, and controlling transmission power of a mobile station in such a manner that said measured SIR ~~will agree~~-agrees with a target SIR, comprising:

a fading detector for detecting rate of change in fading;

a searcher for detecting multipath and levels of signals that arrive via respective ones of the paths;

a level-difference calculation unit for calculating plural level differences between mutually adjacent paths-reception levels using the levels of signals;

a correction unit for correcting the target SIR based upon a combination of the rate of change in fading and said plural level differences between mutually adjacent paths-reception levels; and

means for creating a command, which controls transmission power of the mobile station in such a manner that the measured SIR ~~will agree~~-agrees with said corrected target SIR, and transmitting this command to the mobile station.

6. (currently amended) A transmission power control apparatus in a base station for measuring SIR, which is a ratio of a ~~receive~~-received signal to an interference signal, and controlling

transmission power of a mobile station in such a manner that said measured SIR ~~will agree~~
agrees with a target SIR, comprising:

- a fading detector for detecting rate of change in fading;
- a searcher for detecting multipath and levels of signals that arrive via respective ones of the paths;
- a level-difference calculation unit for calculating plural level differences between mutually adjacent paths-reception levels using the levels of signals;
- a BER measurement unit for measuring bit-error rate BER;
- a correction unit for correcting the target SIR based upon a combination of the rate of change in fading, said plural level differences between mutually adjacent paths-reception levels and a difference between measured BER and target BER; and
- means for creating a command, which controls ~~is~~ transmission power of the mobile station in such a manner that the measured SIR ~~will agree~~ agrees with said corrected target SIR, and transmitting this command to the mobile station.

7. (original) A transmission power control apparatus according to claim 6, further comprising a memory for storing correction values of target SLR in correspondence with combinations of rate change in fading and level differences between paths;

wherein said correction unit corrects a correction value, which corresponds to a combination of the rate of change in fading and the level differences between paths read out of the memory, on the basis of the difference between measured BER and target BER, and corrects the target SIR by said correction value.

8. (currently amended) A transmission power control apparatus in a base station for measuring SIR, which is a ratio of a ~~receive~~received signal to an interference signal, and controlling transmission power of a mobile station in such a manner that said measured SIR ~~will agree~~agrees with a target SIR, comprising:

a fading detector for detecting rate of change in fading;

a searcher for detecting multipath and levels of signals that arrive via respective ones of the paths;

a level-difference calculation unit for calculating plural level differences between mutually adjacent paths~~reception levels~~ using the levels of signals;

a FER measurement unit for measuring frame-error rate FER;

a correction unit for correcting the target SIR based upon a combination of the rate of change in fading and said plural level differences between mutually adjacent paths~~reception levels~~ and a difference between the measured FER and target FER; and

means for creating a command, which controls transmission power of the mobile station in such a manner that the measured SIR will agree with said corrected target SIR, and transmitting this command to the mobile station.

9. (original) A transmission power control apparatus according to claim 8, further comprising a memory for storing correction values of target SIR in correspondence with combinations of rate change in fading and level differences between paths;

wherein said correction unit corrects a correction value, which corresponds to a combination of the rate of change in fading and the level differences between the paths read out of the memory, on the basis of the difference between the measured FER and the target FER, and corrects target SIR by said correction value.

10. (currently amended) A transmission power control apparatus according to claim +5, 6, or 8, wherein said fading detector detects the rate of change in fading from a difference between phase of a pilot signal, which has been received from the mobile station before a prescribed time in the past and phase of the pilot signal at the present time.

11. (currently amended) A transmission power control apparatus according to claim +5, 6, or 8, wherein said fading detector detects the rate of change in fading based upon the measured SIR.

12. (currently amended): A transmission power control apparatus according to claim +5, 6, or 8, wherein said fading detector detects the rate of change in fading based upon direction of transmission power control by TPC bits.